

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	633	adapt\$5 with "web page" and client	US-PGPUB; USPAT	OR	OFF	2007/04/18 11:35
L2	110	l1 and @ad<"20000831"	US-PGPUB; USPAT	OR	OFF	2007/04/18 11:35
L3	79	l2 and HTTP	US-PGPUB; USPAT	OR	OFF	2007/04/18 11:35
S1	1	("20020040386").PN.	US-PGPUB; USPAT	OR	OFF	2007/04/17 11:37
S2	514	(715/523).cccls.	US-PGPUB; USPAT	OR	OFF	2007/04/17 15:04
S3	50	("5937421" "20020040386" "6122635" "5732219" "5890173" "6035323" "6058428" "6092091" "6248996" "6944658" "6950213" "20030145197" "20040019499" "20040054967" "20040117732" "20060232852" "20050044483" "20060184638" "5715453" "6300947" "6556217" "20030236892" "5625781" "5946697" "6842755" "6871218" "7155670" "7181683" "20020049882" "20030088580" "20030101415" "20030135538" "20060161841" "20060218143" "20060290982" "5826158" "20050097449" "5903901" "6026432" "6035325" "6067560" "5877757" "5905248" "5978848" "6008814" "6026437" "6041326" "6195693" "6243722" "5787254" ).pn.	US-PGPUB; USPAT	OR	OFF	2007/04/18 08:36
S4	45	(parse with (document or page)) and link and prefetch	US-PGPUB; USPAT	OR	OFF	2007/04/17 15:43
S5	20	S4 and @ad<"20000831"	US-PGPUB; USPAT	OR	OFF	2007/04/17 15:35
S6	3	((parse with (document or page)) with link) and prefetch	US-PGPUB; USPAT	OR	OFF	2007/04/17 15:44
S7	1	("5768515").PN.	US-PGPUB; USPAT	OR	OFF	2007/04/18 08:46
S8	1	("6167441").PN.	US-PGPUB; USPAT	OR	OFF	2007/04/18 09:07
S9	3467	HTTP with header	US-PGPUB; USPAT	OR	OFF	2007/04/18 09:07
S10	98	S9 with size	US-PGPUB; USPAT	OR	OFF	2007/04/18 09:09

## EAST Search History

S11	14	S10 and @ad<"20000831"	US-PGPUB; USPAT	OR	OFF	2007/04/18 11:34
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[S Gribble](#)
[G Abowd](#)
[A Fox](#)
[E Brewer](#)
[R Mohan](#)
[An active transcoding proxy to support mobile web access - group of 8 »](#)

H Bharadvaj, A Joshi, S Auephanwiriyakul - Reliable Distributed Systems, 1998.

 Proceedings. Seventeenth ..., 1998 - [ieeexplore.ieee.org](#)

 ... methods depending on the limita- tions of the **client** or network ... A user on a **PDA**, on the other hand, will ... two computers and ac- cessed the same **web page** to see ...

 Cited by 100 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)
[Experience With Top Gun Wingman: A Proxy-Based Graphical Web Browser for the 3Com PalmPilot - group of 12 »](#)

 A Fox, I Goldberg, SD Gribble, DC Lee, A Polito, ... - Proceedings of the IFIP International Conference on ..., 1998 - [cypherpunks.ca](#)

 ... a graphical, split **Web** browser for the Palm Pilot **PDA** that is ... to immediately save the text of a **Web page** in this ... 2.4 **Client** Implementation and User Experience ...

 Cited by 68 - [Related Articles](#) - [View as HTML](#) - [Web Search](#)
[Web Page Filtering and Re-Authoring for Mobile Users - group of 10 »](#)

T Bickmore, A Girgensohn, JW Sullivan - The Computer Journal, 1999 - Br Computer Soc

 ... hand for display on a Sharp Zaurus **PDA** with a ... input **page** cannot be directly sent to the **client**. ... sidebars' (common practice in commercial HTML **web pages**) and ...

 Cited by 50 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)
[Adapting Multimedia Internet Content for Universal Access - group of 11 »](#)

 R Mohan, JR Smith, CS Li - IEEE TRANSACTIONS ON MULTIMEDIA, 1999 - [ieeexplore.ieee.org](#)

 ... One can argue that in the original **Web** document, the ... be capable of displaying video, and a **PDA** may not be ... The resources of a **client** can typically be divided up ...

 Cited by 263 - [Related Articles](#) - [Web Search](#)
[Reducing WWW Latency and Bandwidth Requirements by Real-Time Distillation - group of 11 »](#)

 A Fox, EA Brewer - WWW5 / Computer Networks, 1996 - [www5conf.inria.fr](#)

 ... Some devices, particularly **PDA**'s, have limited onboard ... Experience with a Wireless World Wide **Web Client**. ... [BCS] Bandwidth Conservation Society home **page**. ...

 Cited by 154 - [Related Articles](#) - [Cached](#) - [Web Search](#)
[On proxy agents, mobility, and web access - group of 16 »](#)

A Joshi - Mobile Networks and Applications, 2000 - Springer

 ... over LAN, Laptop over wireless/dialin, **PDA**/PCS Phone ... in a resolution appropriate for the **client** if possible ... A. Joshi / On proxy agents, mobility, and **web access** ...

 Cited by 56 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)
[Design of a Framework for Dynamic Content Adaptation to Web-Enabled Terminals and Enterprise ... - group of 5 »](#)

 F Kitayama, SI Hirose, G Kondoh, K Kuse - Software Engineering Conference, 1999 - [doi.ieeecomputersociety.org](#)

 ... **Page 7**. documents to **PDA** clients. ... [10] T. Kamada and T. Miyazaki.

**Client-Specific Web Services** by Using User Agent Attributes. ...

[Cited by 19](#) - [Related Articles](#) - [Web Search](#)

**Automating Web navigation with the WebVCR - group of 12 »**

V Anupam, J Freire, B Kumar, D Lieuwen - Computer Networks, 2000 - Elsevier  
... of a combination of server-based and **client**-based components ... from his personal digital assistant (**PDA**) using a ... in our pre- vious work on **Web** personalization [1 ...

[Cited by 41](#) - [Related Articles](#) - [Web Search](#)

**WEST: a Web browser for small terminals - group of 17 »**

S Björk, LE Holmquist, J Redström, I Bretan, R ... - Proceedings of the 12th annual ACM symposium on User ..., 1999 - portal.acm.org  
... The **client** application would then provide the following display ... by pressing a specified button on the **PDA** or tapping ... 2. Convert the reduced **web page** into n sub ...

[Cited by 74](#) - [Related Articles](#) - [Web Search](#)

**[PS] System Design Issues for Internet Middleware Services: Deductions from a Large Client Trace - group of 20 »**

SD Gribble - 1997 - now.cs.berkeley.edu  
... by Steven D. Gribble **Page 4.** 1 ... Professor Eric A. Brewer, Chair In this thesis, we present the analysis of a large **client**-side **web** trace gathered from the ...

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Digestor author:Bickmore

1996

- 2000

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Sc  
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[Bickmore](#)

[T Bickmore](#)

[B Schilit](#)

[A Girgensohn](#)

[J Sullivan](#)

**Digestor: Device-Independent Access to the World Wide Web - group of 8 »**

TW Bickmore, BN Schilit - WWW6 / Computer Networks, 1997 - decweb.ethz.ch

**Digestor: Device-independent Access to the World Wide Web.** Timothy W. Bickmore.

Bill ... 4. **Digestor** System Design. Following the results of ...

[Cited by 179](#) - [Related Articles](#) - [Cached](#) - [Web Search](#)

[CITATION] **Digestor: Device-Independent Access to the World Wide Web**

B Schilit, T Bickmore - Proc. WWW-6, Santa Clara, CA, April, 1997

[Cited by 10](#) - [Related Articles](#) - [Web Search](#)

**Web Page Filtering and Re-Authoring for Mobile Users - group of 10 »**

T Bickmore, A Girgensohn, JW Sullivan - The Computer Journal, 1999 - Br Computer Soc

... The **Digestor** system automatically converts web-based documents designed for desktop viewing into formats appropriate for handheld devices with small display ...

[Cited by 50](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

[CITATION] **Digestor: Device-independent Access to the WWW**

TW Bickmore, BN Schilit - Proc. of the 6 thWWW Conf., Santa Clara, CA, USA, 1997

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[CITATION] T., Schilit, N., B., **Digestor: Deviceindependent Access to the WWW**

W Bickmore - the Proceedings of the 6 thWWW Conference, 1997

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[CITATION] **Digestor: Device-Independent Access to the World Wide Web.**  
WWW6

TW Bickmore, BN Schilit - Computer Networks, 1997

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Sixth International World Wide Web ...

TW Bickmore, BN Schilit - Santa Clara, CA, USA, 1997

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**Digestor: device-independent access to the World Wide Web**

... Sancho, G Benito, J Sirvent, G Desir, TW Bickmore ... - Computer Networks and ISDN Systems, 1997 - ingentaconnect.com

... **Digestor: device-independent access to the World Wide Web.** Authors: Gutierrez M.; Sancho C.; Benito G.; Sirvent J.; Desir G.; Bickmore TW 1 ; Schilit BN. ...

[Web Search](#)

Digestor author:Bickmore

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## Adapting multimedia Internet content for universal access

[Mohan, R.](#) [Smith, J.R.](#) [Chung-Sheng Li](#)

IBM Thomas J. Watson Res. Center, Yorktown Heights, NY;

This paper appears in: [Multimedia, IEEE Transactions on](#)

Publication Date: Mar 1999

Volume: 1, [Issue: 1](#)

On page(s): 104-114

ISSN: 1520-9210

References Cited: 36

CODEN: ITMUF8

INSPEC Accession Number: 6184728

Digital Object Identifier: 10.1109/6046.748175

Posted online: 2002-08-06 22:25:23.0

#### Abstract

Content delivery over the Internet needs to address both the multimedia nature of the content and the capabilities of the diverse client platforms the content is being delivered to. We present a multimedia Web documents to optimally match the capabilities of the client device request. The system has two key components. 1) A representation scheme called the InfoPyramid that provides a multiresolution representation hierarchy for multimedia. 2) A customizer that selects the best representation to meet the client capabilities while delivering the most value. We model this as a resource allocation problem in a generalized rate distortion framework. In this framework, we address the issue of both multiple media types in a Web document and multiple resource types at the client. We develop a framework to allow prioritization on the content items in a Web document. We illustrate our technique with a web server that adapts multimedia news stories to clients as diverse as desktop PCs and cellular phones.

#### Index Terms

Inspec

##### Controlled Indexing

[Internet](#) [multimedia systems](#) [resource allocation](#) [search engines](#)

##### Non-controlled Indexing

[InfoPyramid](#) [cellular phones](#) [customizer](#) [diverse client platforms](#) [generalized rate distortion framework](#) [multimedia Internet content](#) [multimedia Web documents](#) [resource types](#) [multiresolution representation hierarchy](#) [representation scheme](#) [resource allocation](#) [universal access](#) [web server](#)

#### Author Keywords

Not Available

#### References

- 1 "The future of computing; After the PC," *The Economist*, Sept. 12, 1998.  
[Abstract](#) | Full Text: [PDF](#) (24KB)
- 2 International Data Corp *Information Appliances: Market Review and Forecast*, Dec. 1997.
- 3 S.-F.Chang, A.Eleftheriadis, D.Anastassiou, S.Jacobs, H.Kalva, and J.Zamora, "Colu multimedia research testbed with heterogeneous network support," *Int. J. Multimedia* 1997.
- 4 P.Bocheck and S.-F.Chang, "Content-based modeling for scalable variable bit rate video," *Workshop Network Operating Systems Support Digital Audio Video, (NOSSDAV)*, July 1997.



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## An active transcoding proxy to support mobile web access

Bharadvaj, H. Joshi, A. Auephanwiriyakul, S.

Dept. of Comput. Eng. & Comput. Sci., Missouri Univ., Columbia, MO;

This paper appears in: **Reliable Distributed Systems, 1998. Proceedings. Seventeenth IEEE Symposium on**

Publication Date: 20-23 Oct 1998

On page(s): 118-123

Meeting Date: 10/20/1998 - 10/23/1998

Location: West Lafayette, IN, USA

ISBN: 0-8186-9218-9

References Cited: 19

INSPEC Accession Number: 6096992

Digital Object Identifier: 10.1109/RELDIS.1998.740482

Posted online: 2002-08-06 22:06:23.0

### Abstract

In this paper, we present a proxy based system (MOWSER) to support web browsing from wireless networks. Mowser is a proxy agent between the mobile host and the web server active transcoding of data on both upstream and downstream traffic to present web information according to the QoS parameters set by the user. Active transcoding is defined as transcoding in situ, and it is entirely transparent to the user. Further, our system does not pose requirements on the mobile user. This is an improvement over other proxy based systems that transcode images on the downstream and are mostly not configurable. While developed as a system can actually be useful in any low bandwidth scenario.

### Index Terms

#### Indexing

##### Controlled Indexing

[Internet](#) [client-server systems](#) [mobile computing](#) [transport protocols](#)

##### Non-controlled Indexing

[HTTP stream](#) [Mowser](#) [active transcoding proxy](#) [downstream](#) [low bandwidth](#) [mobile clients](#) [mobile host](#) [mobile web access](#) [proxy based systems](#) [web browser information](#) [web server](#) [wireless networks](#)

### Author Keywords

Not Available

### References

No references available on IEEE Xplore.

### Citing Documents

1 Adapting multimedia Internet content for universal access, Mohan, R.; Smith, J.R.; *CI Multimedia, IEEE Transactions on*  
On page(s): 104-114, Volume: 1, Issue: 1, Mar 1999  
[Abstract](#) | [Full Text: PDF](#) (964)

2 The Infostations challenge: balancing cost and ubiquity in delivering wireless data, Fradette, B.R.; Borres, J.; Yates, R.D.  
*Personal Communications, IEEE [see also IEEE Wireless Communications]*



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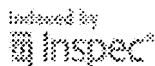
IEEE STD IEEE Standard

## 1. Design of a framework for dynamic content adaptation to Web-enabled terminals applications

Kitayama, F.; Hitose, S.; Kondoh, G.; Kuse, K.;  
Software Engineering Conference, 1999. (APSEC '99) Proceedings. Sixth Asia Pacific  
7-10 Dec. 1999 Page(s):72 - 79

**Abstract:**

The paper describes the design of a framework for enterprise Web applications that adapt contents to various types of Web-enabled terminals, such as wearable devices, PDAs, PCs. Such terminals have different capabilities as regards their processing units, user interface communication. Thus, applications must dynamically adapt their contents to each type they provide service sessions. On the other hand, applications that serve various dynamic databases and transactions need to be connected to back-end systems, namely, business designed independently of the Web applications. For reuse and easy development of enterprise systems, the framework should separate three concerns: (1) design of business design of logical Web contents, and (3) design of the content adaptation. The paper reports experience in designing, implementing, and applying a framework to a banking system display devices, and discusses the design.

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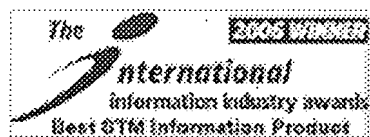
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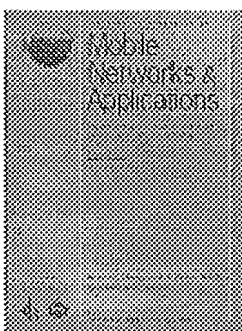
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#### Content Types Subjects

#### Journal Article



#### The Satchel system architecture: Mobile access to documents and services

Journal	Mobile Networks and Applications
Publisher	Springer Netherlands
ISSN	1383-469X (Print) 1572-8153 (Online)
Subject	Computer Science and Engineering
Issue	Volume 5, Number 4 / December 2000
DOI	10.1023/A:1019172931873
Pages	243-258
SpringerLink Date	Tuesday, November 02, 2004

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**Mike Flynn<sup>1</sup>, David Pendlebury<sup>2,3</sup>, Chris Jones<sup>3</sup>,  
Marge Eldridge<sup>4</sup> and Mik Lamming<sup>4</sup>**

- (1) Internet Designers Limited, Compass House, Vision Park, Chivers Way, Histon, Cambridge, CB4 9AD, UK
- (2) Aspect Capital Limited, 9 Mandeville Place, London, W1M 5LB, UK
- (3) Apama, 17-18 Miller's Yard, Mill Lane, Cambridge, CB2 1RQ, UK
- (4) Xerox Research Centre Europe, 61 Regent Street, Cambridge, CB2 1AB, UK

**Abstract** Mobile professionals require access to documents and document-related services, such as printing, wherever they may be. They may also wish to give documents to colleagues electronically, as easily as with paper, face-to-face, and with similar security characteristics. The Satchel system provides such capabilities in the form of a mobile browser, implemented on a device that professional people would be likely to carry anyway, such as a pager or mobile phone. Printing may be performed on any Satchel-enabled printer, or any fax machine. Scanning, too, may be accomplished at any Satchel-enabled scanner. Access rights to individual documents may be safely distributed, without regard to document formats. Access to document services is greatly simplified by the use of context sensitivity. The system has been extensively tested and evaluated. This paper describes the architecture of the Satchel system.